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Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.12/HSS/CEMENT/2013-14

Date: 18.04.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. H.S. Shivakumar,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing Cement Concrete Roads at Shettyhalli Gate Palya in Ward No.12, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2012-13
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	495 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

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Job No.: CTCE/BBMP/W.No.12/HSS/SAND/2013-14 : 18.04.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. H.S. Shivakumar,** Contractor, Bangalore.

Name of Work : Providing Cement Concrete Roads at Shettyhalli Gate Palya in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13

Date of Testing : 18.04.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	102	5.10	5.10	94.9	90-100
2.36	228	11.40	16.50	83.5	75-100
1.18	513	25.65	42.15	57.9	55-90
600 Micron	415	20.75	62.90	37.1	35-59
300 Micron	486	24.30	87.20	12.8	8-30
150 Micron	198	9.90	97.10	2.9	0-10

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Job No.: CTCE/BBMP/W.No.12/HSS/AGG/2013-14 : 18.04.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. H.S. Shivakumar,** Contractor, Bangalore.

Name of Work : Providing Cement Concrete Roads at Shettyhalli Gate Palya in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13

Date of Testing : 18.04.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	987	3.87	3.87	96.13	95-100
20	15674	61.47	65.34	34.66	30-70
10	5987	23.48	88.82	11.18	10-35
4.75	2546	9.98	98.80	1.20	0-5

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಬಾಪೂಜಿ ಸೇವಾ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No.: CTCE/BBMP/W.No.12/HSS /STEEL/2013-14 06.05.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. H.S. Shivakumar,** Contractor, Bangalore.
Name of the work	:	Providing Cement Concrete Roads at Shettyhalli Gate Palya in Ward No.12, BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2012-13
Date of Test	:	06.05.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
2	10	0.62	513	552	13.30	O.K	O.K
3	12	0.89	515	556	13.65	O.K	O.K

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Job No.: CTCE/BBMP/W.No.12/HSS/CUBE/2013-14

11.06.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. H.S. Shivakumar,** Contractor, Bangalore.

Name of the work : Providing Cement Concrete Roads at Shettyhalli Gate Palya in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13

Sample ID : Culver Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.05.2013	11.06.2013	8.157	488.3	21.70
2	14.05.2013	11.06.2013	8.369	506.2	22.50
3	14.05.2013	11.06.2013	8.246	495.6	22.03

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Job No.: CTCE/BBMP/W.No.12/HSS/CUBE/2013-14

09.06.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. H.S. Shivakumar,** Contractor, Bangalore.
Name of the work	: Providing Cement Concrete Roads at Shettyhalli Gate Palya in Ward No.12, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2012-13
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.05.2013	09.06.2013	8.456	630.8	28.04
2	12.05.2013	09.06.2013	8.321	627.9	27.91
3	12.05.2013	09.06.2013	8.258	612.5	27.22

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7 days

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Job No.: CTCE/BBMP/W.No.12/HSS/WBM-II/2013-14

Date: 26.04.2013

REPORT

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. H.S. Shivakumar,** Contractor, Bangalore.
Name of the Work	:	Providing Cement Concrete Roads at Shettyhalli Gate Palya in Ward No.12, BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2012-13
Type of Mix	:	Water Bound Macadam (Grade-II Metal)
Date of Sampling	:	24.04.2013
Date of Testing	:	26.04.2013

1) SEIVE ANALYSIS :

IS Sieve designation Size, mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
90mm	100.00	100.00
63mm	95.70	90-100
53mm	31.45	25-75
45mm	9.60	0-15
22.4mm	1.15	0-5

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